

IN THE CLAIMS

The status of the claims are as follows:

DO NOT ENTER: /PDM/ (03/06/2008)

1. (Currently Amended) A polymer dispersion having low viscosity comprising

- A) at least one dispersed polyolefin,
- B) at least one dispersing component,
- C) at least one carrier medium and
- D) from 0.3 to 15% by weight of at least one compound having a dielectric constant of greater than or equal to 9,

said compound being water, a glycol, an amine; a halogenated hydrocarbon, a ketone and/or an alcohol,

wherein the alcohol is selected from the group consisting of methanol, ethanol, butanol, glycerol and mixtures thereof, and

wherein the amine is selected from the group consisting of ethanolamine, 1,2-ethanediamine, propanolamine and mixtures thereof.

2. (Previously Presented) The polymer dispersion according to Claim 1, wherein the component B) represents a copolymer which comprises one or more blocks A and one or more blocks X, the block A representing olefin copolymer sequences, hydrogenated polyisoprene sequences, hydrogenated copolymers of butadiene/isoprene or hydrogenated copolymers of butadiene/isoprene and styrene, and the block X representing polyacrylate-, polymethacrylate-, styrene-, α -methylstyrene or N-vinyl-heterocyclic sequences and/or sequences of mixtures of polyacrylate-, polymethacrylate-, styrene-, α -methylstyrene or N-vinyl-heterocycles.

3. (Previously Presented) The polymer dispersion according to Claim 1, wherein the component B) is obtained by graft copolymerization of a monomer composition comprising (meth)acrylates and/or styrene compounds onto polyolefins according to component A).

4. (Previously Presented) The polymer dispersion according to Claim 3, wherein said monomer composition comprises one or more (meth)acrylates of the formula (I)



wherein R denotes hydrogen or methyl and R¹ denotes hydrogen or a linear or branched alkyl radical having 1 to 40 carbon atoms,

and/or one or more (meth)acrylates of the formula (II)



wherein R denotes hydrogen or methyl and R² denotes an alkyl radical substituted by an OH group having 2 to 20 carbon atoms or denotes an alkoxyalted radical of the formula (III)



wherein R³ and R⁴ independently represent hydrogen or methyl, R⁵ represents hydrogen or an alkyl radical having 1 to 40 carbon atoms and n represents an integer from 1 to 90,

and/or one or more (meth)acrylates of the formula (IV)



wherein R denotes hydrogen or methyl, X denotes oxygen or an amino group of the formula -NH- or -NR⁷-, in which R⁷ represents an alkyl radical having 1 to 40 carbon atoms, and R⁶ denotes a linear or branched alkyl radical substituted by at least one -NR⁸R⁹ group and having 2 to 20, carbon atoms, R⁸ and R⁹, independently of one another, representing hydrogen, an alkyl radical having from 1 to 20, or in which R⁸ and R⁹, including the nitrogen atom and optionally a further nitrogen or oxygen atom, form a 5- or 6-membered ring which is unsubstituted or substituted by C₁-C₆-alkyl.

5. (Previously Presented) The polymer dispersion according to Claim 3, wherein said monomer composition comprises dispersing monomers .

6. (Previously Presented) The polymer dispersion according to Claim 2, wherein the weight ratio of the blocks A to the blocks X is in the range from 20:1 to 1:20.

7. (Previously Presented) The polymer dispersion according to Claim 1, wherein the component A) comprises one or more olefin copolymers, hydrogenated polyisoprene, hydrogenated copolymers of butadiene/isoprene or hydrogenated copolymers of butadiene/isoprene and styrene.

8. (Previously Presented) The polymer dispersion according to Claim 1, wherein the component C) is a nonionic surfactant.

9. (Previously Presented) The polymer dispersion according to Claim 8, wherein the nonionic surfactant comprises an ethoxylated alcohol.

10. (Previously Presented) The polymer dispersion according to Claim 9, wherein the ethoxylated alcohol comprises from 2 to 8 ethoxy groups, the hydrophobic radical of the alcohol comprising from 4 to 22 carbon atoms.

11. (Previously Presented) The polymer dispersion according to Claim 1, wherein the component C) comprises one or more esters.

12. (Previously Presented) The polymer dispersion according to Claim 1, wherein the polymer dispersion comprises at least 20% by weight of the component A).

13. (Previously Presented) The polymer dispersion according to Claim 1, wherein the dielectric constant of the compound according to component D) is greater than or equal to 20.

14. (Previously Presented) The polymer dispersion according to Claim 1, wherein said component D) comprises water, ethylene glycol, polyethylene glycol and/or the alcohol.

15. (Previously Presented) The polymer dispersion according to Claim 1, wherein the polymer dispersion comprises up to 30% by weight of component B).

16. (Previously Presented) The polymer dispersion according to Claim 1, wherein the polymer dispersion comprises 0.01-15% by weight of compounds according to component D).

17. (Previously Presented) The polymer dispersion according to Claim 1, wherein the polymer dispersion comprises a mineral oil.

18. (Previously Presented) A process for the preparation of said polymer dispersion according to Claim 1, wherein the component A) is dispersed in a solution of components B) with application of shear forces at a temperature in the range from 80 to 180°C.

Claim 19: (Canceled).

20. (Previously Presented) A lubricating oil formulation comprising the polymer dispersion according to Claim 1.

21. (Previously Presented) The polymer dispersion according to Claim 1, wherein D) comprises water.

22. (Previously Presented) The polymer dispersion according to Claim 1, wherein D) comprises the glycol.

23. (Previously Presented) The polymer dispersion according to Claim 22, wherein the glycol is selected from the group consisting of ethylene glycol, 1,2-propylene glycol, 1,2-propylene glycol, polyethylene glycol and mixtures thereof.

24. (Previously Presented) The polymer dispersion according to Claim 1, wherein D) comprises the amine.

Claim 25: (Canceled).

26. (Previously Presented) The polymer dispersion according to Claim 1, wherein D) comprises the halogenated hydrocarbon.

27. (Previously Presented) The polymer dispersion according to Claim 26, wherein the halogenated hydrocarbon is selected from the group consisting of 2-chloroethanol, 1,2-dichloroethane and mixtures thereof.

28. (Previously Presented) The polymer dispersion according to Claim 1, wherein D) comprises the ketone.

29. (Previously Presented) The polymer dispersion according to Claim 28, wherein the ketone is selected from the group consisting of 1,1-dichloroacetone, acetone and mixtures thereof.

30. (Previously Presented) The polymer dispersion according to Claim 1, wherein D) comprises the alcohol.